



State Revolving Fund Loan Programs

Drinking Water, Wastewater, Nonpoint Source

ENVIRONMENTAL ASSESSMENT AND FINDING OF NO SIGNIFICANT IMPACT

LOGANSPOUT MUNICIPAL UTILITIES

Cliff Drive Interceptor, Equalization Basin, Lift Station Replacement, and Sewer Replacement

SRF PROJECT WW 12 09 17 03

DATE: Sept. 28, 2012

TARGET PROJECT APPROVAL DATE: Oct. 28, 2012

I. INTRODUCTION

The above entity has applied to the Clean Water State Revolving Fund (SRF) Loan Program for a loan to finance all or part of the wastewater project described in the accompanying Environmental Assessment (EA). As part of facilities planning requirements, an environmental review has been completed which addresses the project's impacts on the natural and human environment. This review is summarized in the attached EA, which can also be viewed at <http://www.in.gov/ifa/srf/>.

II. PRELIMINARY FINDING OF NO SIGNIFICANT IMPACT (FNSI)

The SRF Clean Water Program has evaluated all pertinent environmental information regarding the proposed project and determined that an Environmental Impact Statement is not necessary. Subject to responses received during the 30-day public comment period, and pursuant to Indiana Code 4-4-11, it is our preliminary finding that the construction and operation of the proposed facilities will result in no significant adverse environmental impact. In the absence of significant comments, the attached EA shall serve as the final environmental document.

III. COMMENTS

All interested parties may comment upon the EA/FNSI. Comments must be received at the address below by the target approval date above. Significant comments may prompt a reevaluation of the preliminary FNSI; if appropriate, a new FNSI will be issued for another 30-day public comment period. A final decision to proceed, or not to proceed, with the proposed project shall be effected by finalizing, or not finalizing, the FNSI as appropriate. Comments regarding this document should be sent within 30 days to:

April Douglas
Senior Environmental Manager
State Revolving Fund
100 N. Senate Ave. IGCN 1275
Indianapolis, IN 46204
317-233-4332; adouglas2 at ifa.in.gov

ENVIRONMENTAL ASSESSMENT

I. PROJECT IDENTIFICATION

Project Name and Address: **Cliff Drive Interceptor, Equalization Basin, Lift Station Replacement, and Sewer Replacement**
Logansport Municipal Utilities
601 East Broadway
Logansport, IN 46947

SRF Project Number: WW 120917 03

Authorized Representative: Mr. Paul Hartman, Superintendent

II. PROJECT LOCATION

Logansport is located in Cass County, just northeast of Lafayette at the junction of the Wabash and Eel Rivers. The project area is bordered by Cliff Drive, Norfolk Southern Railroad, Frank Street, Shultz Street, and Cicott Street.

The project area is in Eel Township; in the Clymers USGS quadrangle, T27N, R1E, Section 35; and in the Anoka USGS quadrangle, T27N, R1E, No. 2 J.B. Richardville Land Grant.

III. PROJECT NEED AND PURPOSE

The Logansport Combined Sewer Overflow (CSO) Long Term Control Plan (LTCP) was approved in December 2010 and includes projects that will reduce the number of CSO events from approximately 69 to approximately four events per year at CSO 018. The Cliff Drive interceptor, equalization (EQ) basin, lift station replacement, and sewer replacement projects as proposed in the Preliminary Engineering Report (PER) are part of the approved CSO LTCP.

IV. PROJECT DESCRIPTION

The 15-inch combined sewer along Cliff Drive will be replaced with a new 60-inch interceptor sewer from CSO 018 at Tanguy Street to Lift Station B (to be replaced). The total length of the new 60-inch interceptor will be approximately 2,750 feet. Lift Station B, located near Cliff Drive and Cicott Street, will be replaced, and the new lift station will have three 1,000 gallons per minute (gpm) pumps for dry and wet weather flow conditions. A new below ground 0.64 million gallons (MG) EQ basin will be located near Lift Station B. The project also includes replacement of approximately 1,970 feet of 10-inch sanitary sewers with 15-inch sewers south of the Norfolk Southern Railroad. Approximately 780 feet of new 24-inch relief sewer will connect these replaced sewers to the replaced lift station. See Figure 1.

V. ESTIMATED PROJECT COSTS, AFFORDABILITY AND FUNDING

A. Selected Plan Estimated Cost Summary

Construction and Equipment Costs

Mobilization/Demobilization	\$364,200
Maintenance of Traffic	\$145,700
Erosion Control	\$8,500
Clearing	\$10,000
Rock Excavation	\$1,480,000
60-inch Interceptor	\$687,500
24-inch Sanitary Sewer	\$78,000
15-inch Sanitary Sewer	\$128,050
Jack and Bore of Sanitary Sewer	\$150,000
Sanitary Taps	\$71,400
Manhole Removal	\$7,350
Manhole, 48-inch	\$25,000
Manhole, 96-inch	\$54,000
Structure Backfill	\$348,000
Road Reconstruction	\$188,500
Mill and Resurface	\$1,650
CSO Diversion Structure	\$25,000
EQ Basin Structure (Below Grade)	\$2,300,000
Lift Station and Control Building	\$220,000
Wet Well Structure (Below Grade)	\$25,000
EQ Basin Pumps (1,000 gpm)	\$150,000
EQ Basin Pump VFDs	\$90,000
Access Hatches at EQ Basin	\$80,000
Connection to Existing Force Main	\$10,000
Electrical	\$200,000
HVAC	\$100,000
SCADA System	\$100,000
Odor Control	\$100,000
Asphalt Pavement Repair	\$8,000
Utility Pole Relocation	\$97,500
Seeding and Restoration	<u>\$30,000</u>

Construction and Equipment Subtotal **\$7,283,300**

Contingencies **\$728,330**

Estimated Construction Cost **\$8,012,000**

Non-Construction Costs

Administrative and Legal	\$75,000
Financial Consultant	\$75,000
Engineering Services	\$1,052,000

Non-Construction Subtotal **\$1,202,000**

Total Estimated Project Cost \$9,214,000

B. Logansport will finance the Cliff Drive interceptor, equalization basin, lift station replacement, and sewer replacement projects with a loan from the SRF Program for a 20-year term at an annual fixed

interest rate to be determined at loan closing. Monthly user rates and charges may need to be analyzed to determine if adjustments are required for loan payment.

VI. DESCRIPTION OF EVALUATED ALTERNATIVES

The “No Action” alternative is not viable, since it would not reduce the frequency and volume of discharges at CSO 018, which is required by the approved CSO LTCP. Besides the “No Action” alternative, Logansport evaluated three alternatives. All three alternatives require replacement of Lift Station B, and upsized sewer lines with 24-inch relief sewer to relieve surcharging manholes south of the Norfolk Southern Railroad. The remaining elements of the three alternatives include: (1) smaller 60-inch interceptor, and below ground EQ basin, (2) larger 7-foot wide by 7-foot high reinforced concrete box interceptor with no EQ basin; and (3) 3-foot high by 5-foot wide reinforced concrete box interceptor, and above ground EQ basin. The larger interceptor size in Alternative 2 allows complete CSO storage in the interceptor itself, which eliminates the need for an equalization basin.

Although Alternatives 1 and 2 are similar in costs, the disturbance associated with construction of a 7-foot by 7-foot reinforced concrete box interceptor would be greater than that of a 60-inch interceptor. **The selected alternative is Alternative 1.**

VII. ENVIRONMENTAL IMPACTS OF THE FEASIBLE ALTERNATIVES

A. Direct Impacts of Construction and Operation

Undisturbed/Disturbed Land: The proposed interceptor, equalization basin, pump station, force main, and sewer extension will be installed using open cut techniques. Most surface disruption will occur in areas previously disturbed by construction activity. An archeological survey at the proposed Equalization Basin site did not find significant archaeological material.

Structural Resources: Construction and operation of the project will not alter, demolish or remove historic properties. If any visual or audible impacts to historic properties occur, they will be temporary and will not alter the characteristics that qualify such properties for inclusion in or eligibility for the National Register of Historic Places. The SRF’s finding pursuant to the Section 106 of the national Historic Preservation Act is: “no historic properties affected.”

Plants and Animals: Construction and operation of the project will not negatively impact endangered species or their habitat. The project will be implemented to minimize impact to non-endangered species and their habitat.

Prime Farmland: The proposed project will not affect prime farmland.

Wetlands: The project will not affect wetlands.

100-Year Floodplain (Figure 1): The project boundaries are located inside of the 100-year floodplain. The equalization basin will not be inside of the 100-year floodplain.

Surface Waters: The proposed project will not adversely affect waters of high quality, exceptional use streams, Natural, Scenic and Recreational Rivers and Streams, Salmonid Streams, or waters on the Outstanding Rivers List (Natural Resources Commission Non-rule Policy Document).

Groundwater: If temporary dewatering is needed, it will be done in such a manner as to remove any sediment prior to discharge.

Air Quality: Dust and noise will be produced during construction activities.

Open Space and Recreational Opportunities: The proposed project's construction and operation will neither create nor destroy open space and recreational activities.

Lake Michigan Coastal Program: The proposed project will not affect the Lake Michigan Coastal Zone.

National Natural Landmarks: The proposed project will not affect National Natural Landmarks.

B. Indirect Impacts

The Preliminary Engineering Report (PER) states: *Logansport Municipal Utilities (LMU), through the authority of its Utility Services Board, will ensure that future development, as well as future collection system or treatment works projects connecting to SRF-funded facilities will not adversely impact archaeological/ historical/ structural resources, wetlands, wooded areas, or other sensitive environmental resources. LMU will require new development and treatment works projects to be constructed within the guidelines of the U.S. Fish and Wildlife Service, IDNR, IDEM, and other environmental review authorities.*

C. Comments from Environmental Review Authorities

In correspondence dated September 24, 2012 the DNR Division of Historic Preservation and Archaeology stated:

“Pursuant to IC 13-18-21 and 327 IAC 14 and Section 106 of the National Historic Preservation Act (16 U.S.C. § 470f) and 36 C.F.R. Part 800, the Indiana State Historic Preservation Officer (“Indiana SHPO”) is conducting an analysis of the materials dated and received by the Indiana SHPO on September 13, 2012, for the above indicated project in Logansport, Cass County, Indiana.

In regard to buildings and structures, we have identified the following properties within the probable area of potential effects, and we believe that they may meet the criteria of eligibility for inclusion in the National Register of Historic Places:

House, 627-629 Cliff Drive (Site #017-124-44035 per the *Cass County Interim Report*)
House, 411 Cliff Drive (Site #017-019-44040 per the *Cass County Interim Report*)

However, based on the information provided to our office, we do not believe that there will be any alterations to the characteristics of the above identified historic properties qualifying them for inclusion in or eligibility for the National Register (*see* 36 C.F.R. § 800.16[i]).

In regard to archaeology, we concur that site 12Ca377 is not eligible for the National Register of Historic Places. No further archaeological investigations are needed at this site or in the other portions of the proposed equalization basin location which were archaeologically surveyed by Accidental Discoveries, LLC. For the other portions of the proposed project area, no archaeological investigation is needed as long as those areas have been previously disturbed by prior construction activities.”

The Department of Natural Resources Environmental Unit has yet to respond to our request for comments.

In correspondence dated September 21, 2012 the United States Fish and Wildlife Service stated: *Based on a review of the information you provided, the U.S. Fish and Wildlife Service has no objections to the project as currently proposed. This precludes the need for further consultation on this project as required under Section 7 of the Endangered Species Act of 1973, as amended.*

The Natural Resources Conservation Service, in correspondence dated March 27, 2012 stated that *"The proposed project to install an interceptor sewer, a subsurface equalization basin, lift station, force main and extending a sewer in the City of Logansport, Cass County, Indiana, as referred to in your letter received March 21, 2012, will not cause a conversion of prime farmland."*

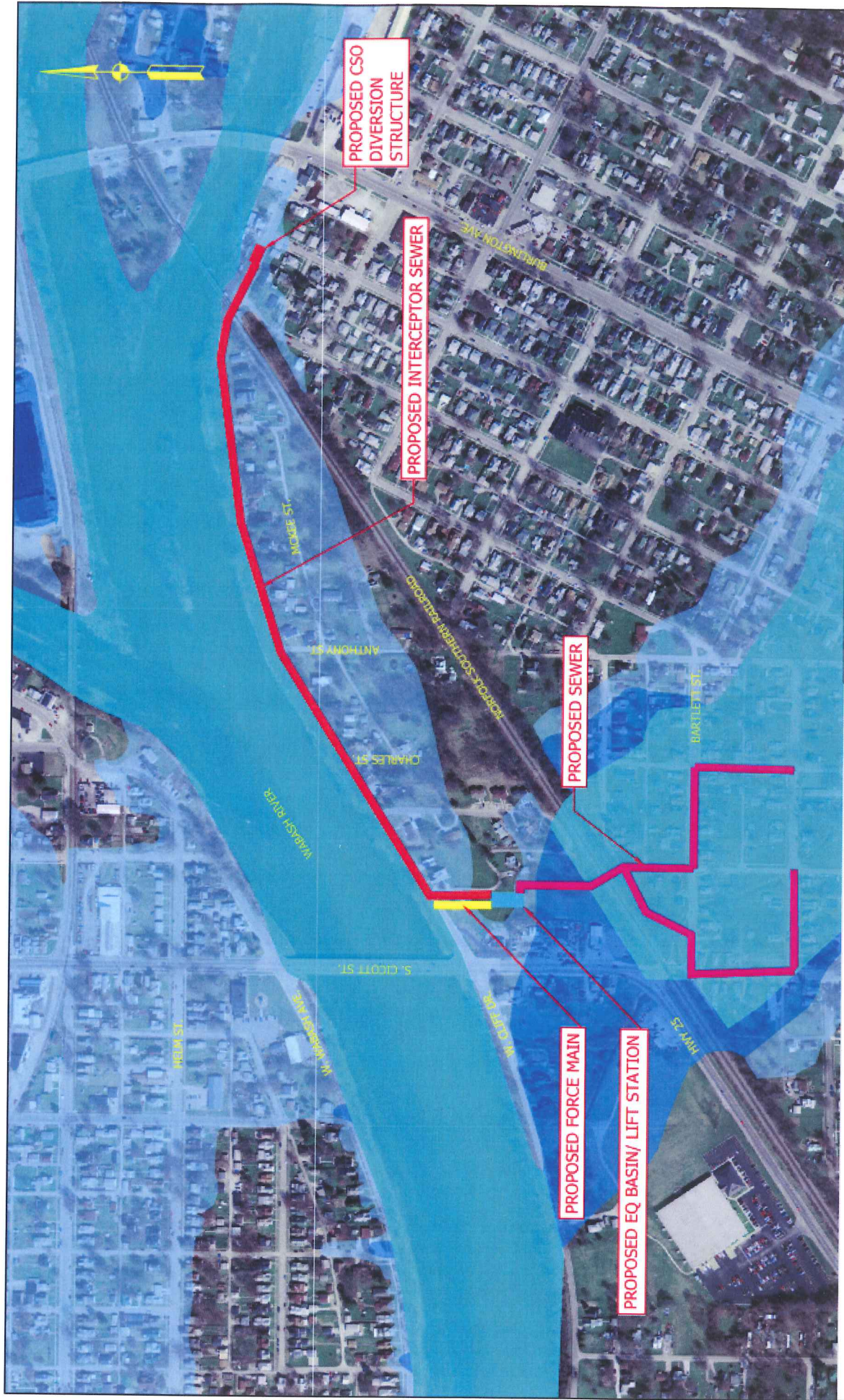
VIII. MITIGATION MEASURES


The PER states:







The amount of noise cannot be decreased drastically, but construction can be limited to hours that will not disturb the nearby residents. Any dust generated will be removed from the streets on a daily basis.

VIII. PUBLIC PARTICIPATION

A properly noticed public hearing was held on May 24, 2012 at 10:00 am at the Logansport City Hall, 601 E. Broadway, Logansport, IN. There were no questions during the hearing. No written comments were received in the 5-day period following the hearing.



 gai consultants 6420 CASTLEWAY WEST DRIVE INDIANAPOLIS, IN 46250 317.570.6800 • Fax 317.570.6810	LOGANSPORT MUNICIPAL UTILITIES CLIFF DRIVE INTERCEPTOR & EQ BASIN PRELIMINARY ENGINEERING REPORT		Scale 1" = 500' Project No. D110571.00
	FLOODWAY AND FLOODPLAIN MAP		FIGURE 1

PROPOSED FORCE MAIN 	FLOODWAY 
PROPOSED INTERCEPTOR SEWER 	100 YR FLOODPLAIN 
PROPOSED EQ BASIN/ LIFT STATION 	500 YR FLOODPLAIN 
PROPOSED SEWER 